

CLIPPEDIMAGE= JP409172748A  
PAT-NO: JP409172748A  
DOCUMENT-IDENTIFIER: JP 09172748 A  
TITLE: SEALED TYPE STATOR AND ROTOR FOR SMALL-SIZED  
MOTOR, AND THESE  
MANUFACTURE, AND IRON CORE MOLDED WITH INSULATOR  
INSERTED

PUBN-DATE: June 30, 1997

INVENTOR-INFORMATION:

NAME

NAKATSUKA, GINZOU

ASSIGNEE-INFORMATION:

NAME

KK ARON

COUNTRY

N/A

APPL-NO: JP08226071

APPL-DATE: August 9, 1996

INT-CL (IPC): H02K003/34; H02K001/04 ; H02K001/18 ;  
H02K015/12

ABSTRACT:

PROBLEM TO BE SOLVED: To manufacture sealed type stator  
and rotor by injection  
molding without damaging the winding.

SOLUTION: An iron core 1 is inserted in a mold, and an  
insulator made of  
thermoplastic or thermosetting insulating synthetic  
resin is undermolded 8 to  
the iron core 1 so as to cover the surface of the iron  
core 1, and then the  
winding 10 is laid thereon to make a stator 11 of a  
rotor. Next, the gate  
position of a mold is provided in the position where  
the injected resin does  
not hit directly on the winding 10 of the stator 11 or  
the rotor, and the

thermoplastic resin is overmolded 12 to the stator 11  
or the rotor by injection  
molding.

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CLIPPEDIMAGE= JP409072362A  
 PAT-NO: JP409072362A  
 DOCUMENT-IDENTIFIER: JP 09072362 A  
 TITLE: BRAKE STATOR

PUBN-DATE: March 18, 1997

INVENTOR-INFORMATION:

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HOSAKA, KOHEI

MIKI, JIICHI

ASSIGNEE-INFORMATION:

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APPL-NO: JP07246900

APPL-DATE: August 31, 1995

INT-CL\_(IPC): F16D065/21; F16D055/00

ABSTRACT:

PROBLEM TO BE SOLVED: To reduce the manufacturing process of a brake stator for contriving the reduction in the manufacturing time by integrally forming the insulating fixed part of a coil and the frictional surface constituting part thereof, and also to enhance the quality of the brake stator by reducing the number of parts of the brake stator.

SOLUTION: A coil 10 is placed in the groove 6 of a stator body 2, and PPS(polyphenylene sulfide) being thermoplastic resin is filled inside the groove 6 by injection molding for fixing the coil 10 in the groove 6, and also a frictional plane 14 is formed by means of PPS on the opening part of the groove 6.

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CLIPPEDIMAGE= JP410243595A  
PAT-NO: JP410243595A  
DOCUMENT-IDENTIFIER: JP 10243595 A  
TITLE: SEALED STATOR FOR SMALL MOTOR AND ITS  
MANUFACTURE

PUBN-DATE: September 11, 1998

INVENTOR-INFORMATION:  
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NAKATSUKA, GINZOU

ASSIGNEE-INFORMATION:  
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APPL-NO: JP09052512  
APPL-DATE: February 21, 1997

INT-CL\_(IPC): H02K003/44; H02K003/34 ; H02K015/12

ABSTRACT:

PROBLEM TO BE SOLVED: To manufacture a sealed stator by injection molding easily without damaging a winding by a method wherein the winding is applied to the core of a stator on which an insulator made of high fluidity thermoplastic synthetic resin is formed by insert-molding and the core is covered with the same system thermoplastic resin by injection molding.

SOLUTION: A layer-built core 1 is inserted into the mold of an injection molder and an insulator is molded with high fluidity thermoplastic synthetic resin as raw material to form an undermold. A winding 10 is applied to the tooth 9 of the layer-built core 1 covered with the undermold 8 to form a stator. Then the gate of the mold is positioned so as not to have the

injected resin applied  
directly to the winding 10 of the stator and the high  
fluidity thermoplastic  
resin of the same system as the insulator is applied to  
the stator to cover the  
winding 10 as an overmold 12. With this constitution,  
the winding 10 is not  
exposed to the outside directly, so that the leakage of  
contaminants from the  
winding 10 of an operating motor can be avoided.

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CLIPPEDIMAGE= JP405336722A  
PAT-NO: JP405336722A  
DOCUMENT-IDENTIFIER: JP 05336722 A  
TITLE: SPINDLE MOTOR FOR DRIVING MAGNETIC DISC

PUBN-DATE: December 17, 1993

INVENTOR-INFORMATION:

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FURUKAWA, MASA HARU

ASSIGNEE-INFORMATION:

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APPL-NO: JP04201114

APPL-DATE: July 28, 1992

INT-CL (IPC): H02K029/00; H02K005/08 ; H02K005/24 ;  
H02K021/22

US-CL-CURRENT: 310/159

ABSTRACT:

PURPOSE: To suppress noise by lessening at least one side of a stator and a rotor.

CONSTITUTION: The vibration and the noise mainly in a stator are suppressed while lessening the influence of dust by injection-molding or cast-molding a stator core 9 and its winding 8, or the stator core 9, its winding 8 and a printed board 10 for letting a current to this winding 8 each integrally, with plastic resin 15, and similarly the vibration on rotor side can be suppressed by paying attention to the structure, too, on rotor side 3, and further the

vibration of both the stator and the rotor can be suppressed.

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